

What is claimed is:

1. A method for dual ringing of a Centrex line and a wireless extension of the Centrex line using an advanced intelligent telecommunication network comprising a service signal point and a service node, the method comprising:

- (a) receiving a call at a service signal point (SSP) assigned to a Centrex line;
- (b) routing the call from the SSP to a service node coupled with the SSP; and
- (c) with the service node, initiating a first call to a wireless communication device associated with the Centrex line and a second call to the Centrex line.

2. The invention of Claim 1 further comprising:

- (d) in response to either the first or second call being answered, dropping the other call.

3. The invention of Claim 1 further comprising:

- (d) if neither the first nor second call is answered within a time period, routing the call to a voicemail system associated with the Centrex line.

4. The invention of Claim 1 further comprising determining whether the wireless communication device associated with the Centrex line is available, and wherein (c) is performed only if the wireless communication device associated with the Centrex line is available.

5. A method for dual ringing of a Centrex line and a wireless extension of the Centrex line using an advanced intelligent telecommunication network comprising a service signal point, a service control point, and a service node, the method comprising:

- (a) receiving a call at a service signal point (SSP) assigned to a Centrex line;
- (b) suspending processing of the call and launching a query to a service control point (SCP) coupled with the SSP;

(c) in response to the query, determining whether a wireless communication device associated with the Centrex line is available; and

(d) if the wireless communication device associated with the Centrex line is available:

- 5 (d1) launching a routing message from the SCP to the SSP instructing the SSP to route the call to a service node coupled with the SSP;
- (d2) routing the call from the SSP to the service node; and
- (d3) with the service node, initiating a first call to the wireless communication device and a second call to the Centrex line.

10 6. The invention of Claim 5 further comprising:

(e) in response to either the first or second call being answered, dropping the other call.

15 7. The invention of Claim 5 further comprising:

(e) if neither the first nor second call is answered within a time period, routing the call to a voicemail system associated with the Centrex line.

20 8. The invention of Claim 5 further comprising:

(e) if the wireless communication device associated with the Centrex line is not available:

- (e1) launching a transmit message from the SCP to the SSP instructing the SSP to transmit the call to the Centrex line; and
- (e2) transmitting the call from the SSP to the Centrex line.

25 9. The invention of Claim 5, wherein the call received in (a) comprises a destination number assigned to the Centrex line.

30 10. The invention of Claim 5 further comprising, prior to (b), detecting a terminating attempt trigger assigned to the Centrex line.

11. The invention of Claim 5 further comprising, prior to (c), determining whether a dual ringing service is enabled.

12. The invention of Claim 5, wherein the wireless communication device is part of a wireless network, and wherein (c) comprises sending a request for availability information of the wireless communication device from the SCP to the wireless network.

13. The invention of Claim 5, wherein the wireless communication device is part of a wireless network, and wherein (c) comprises:

(c1) sending a request for availability information of the wireless communication device from the SCP to a home location register (HLR) in the wireless network; and

(c2) sending the availability information from the HLR to the SCP.

14. The invention of Claim 5, wherein (d3) comprises simultaneously initiating the first and second calls.

15. A system for dual ringing of a Centrex line and a wireless extension of the Centrex line, the system comprising:

a service signal point (SSP) assigned to a Centrex line, the SSP operative to receive a call placed to the Centrex line, suspend processing of the call, and launch a query;

a service control point (SCP) coupled with the SSP, the SCP operative to receive the query launched from the SSP and determine whether a wireless communication device associated with the Centrex line is available; and

a service node coupled with the SSP, the service node operative to initiate a first call to the wireless communication device and a second call to the Centrex line in response to the wireless communication device being available.

16. The invention of Claim 15, wherein the service node is further operative to drop the first call in response to the second call being answered and further operative to drop the second call in response to the first call being answered.

17. The invention of Claim 15 further comprising a home location register (HLR) coupled with the SCP, wherein the SCP is further operative to determine whether the wireless communication device associated with the Centrex line is available by sending a request for availability information of the wireless communication device to the HLR.

~~18.~~ A method for dual ringing of a Centrex line and a wireless extension of the Centrex line, the method comprising:

- (a) receiving a call at a switch assigned to a Centrex line;
- (b) with a network element separate from the switch, initiating a call to the Centrex line; and
- (c) with the network element separate from the switch, initiating a call to a wireless communication device associated with the Centrex line.

19. The invention of Claim 18, wherein acts (b) and (c) are performed in response to the wireless communication device being available.

20. The invention of Claim 18, wherein acts (b) and (c) are performed simultaneously.

21. The invention of Claim 18, wherein the network element comprises a service node.

22. The invention of Claim 18 further comprising dropping the call to one of the Centrex line or the wireless communication device in response to the other answering the call.